

FIG. 1

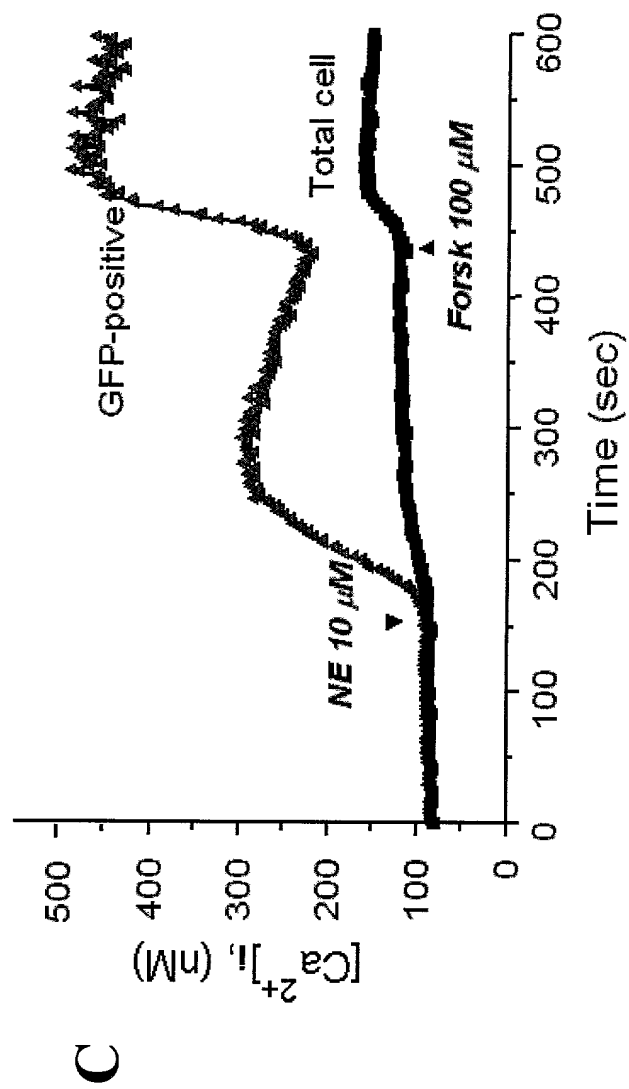
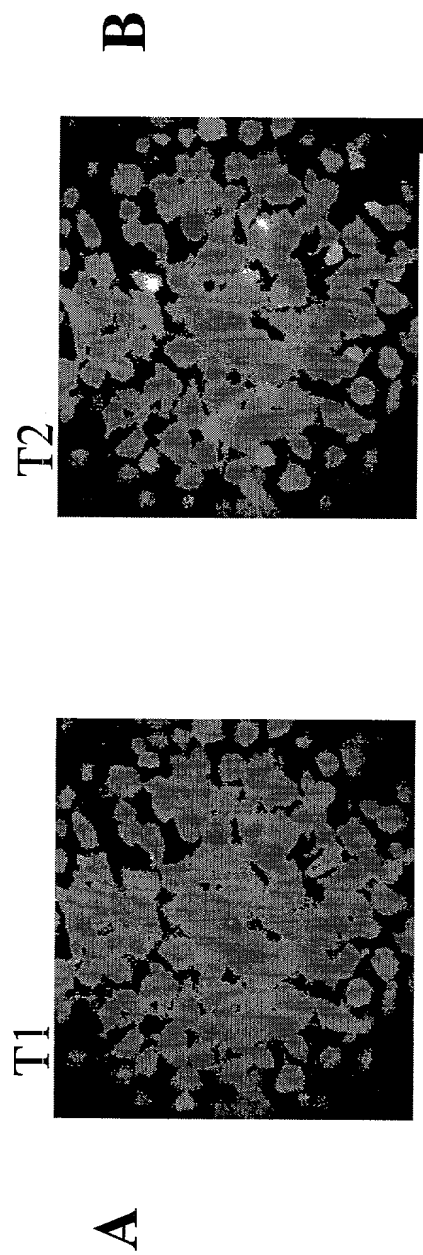


FIG. 2

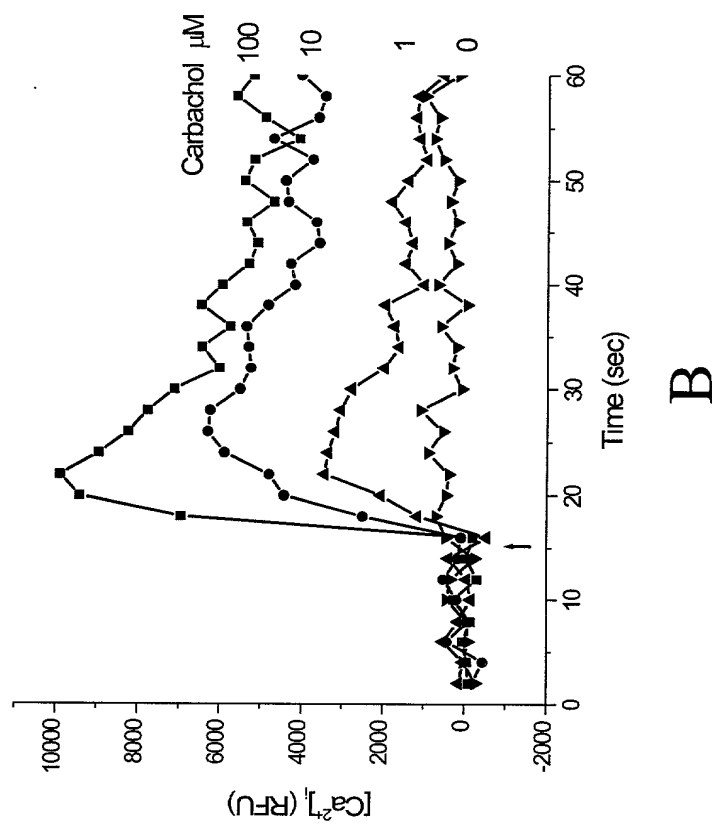
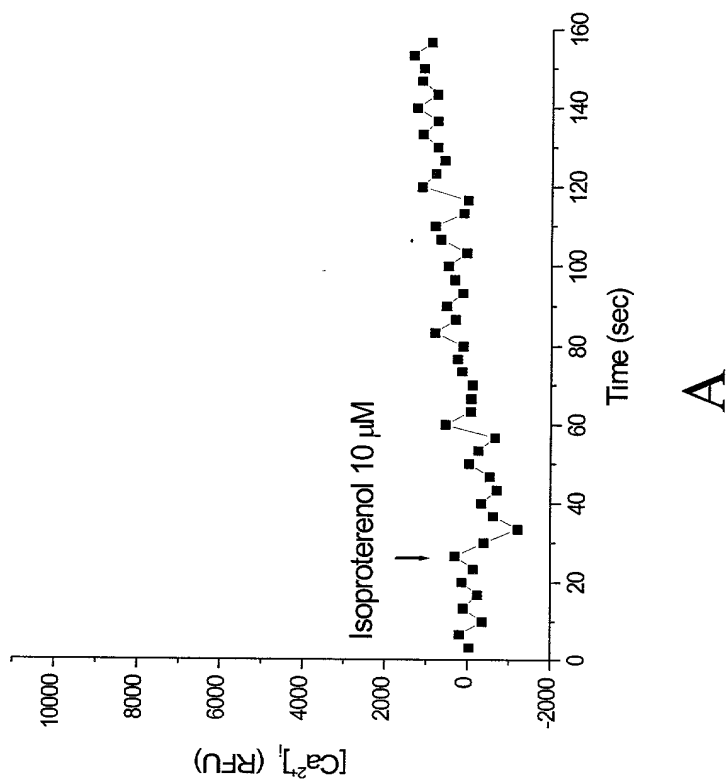


FIG. 3

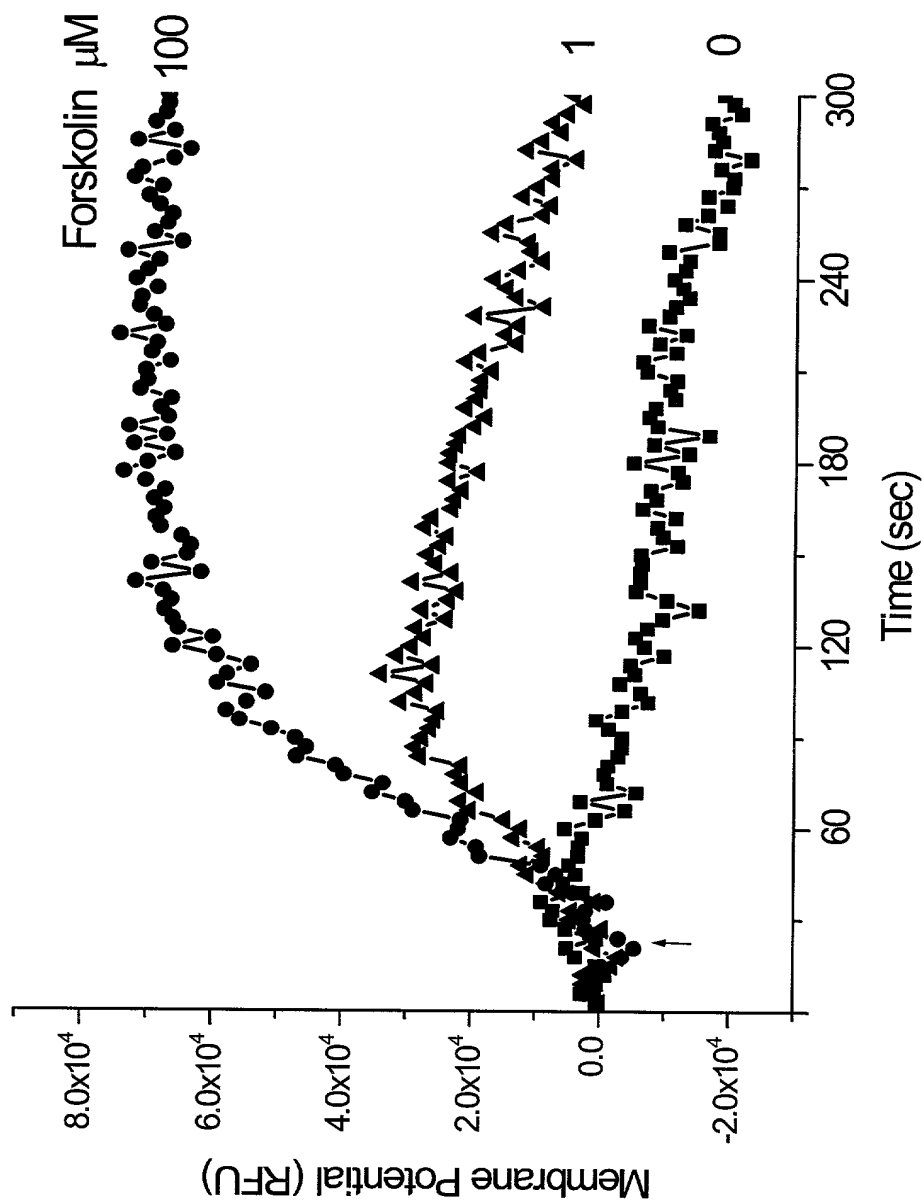


FIG. 4

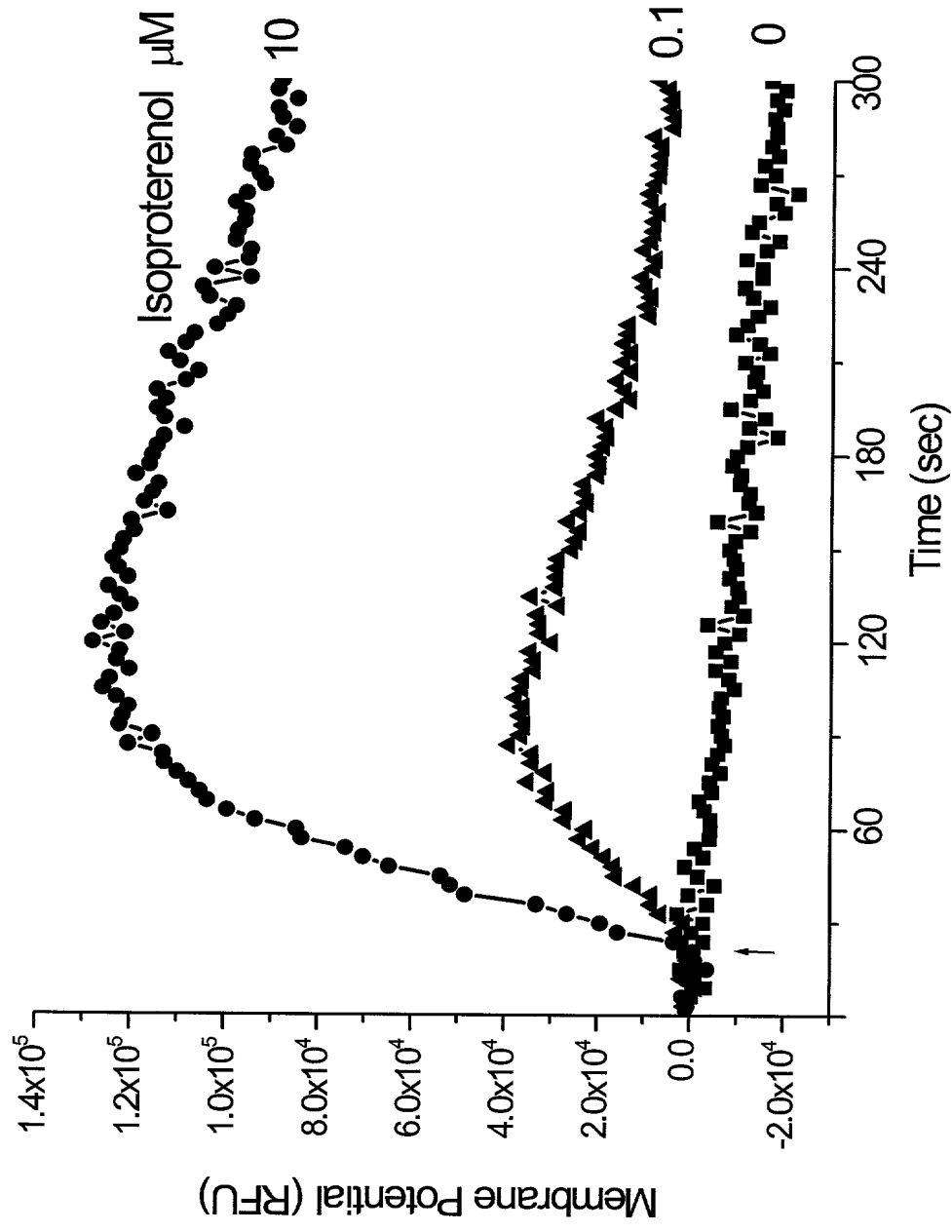


FIG. 5

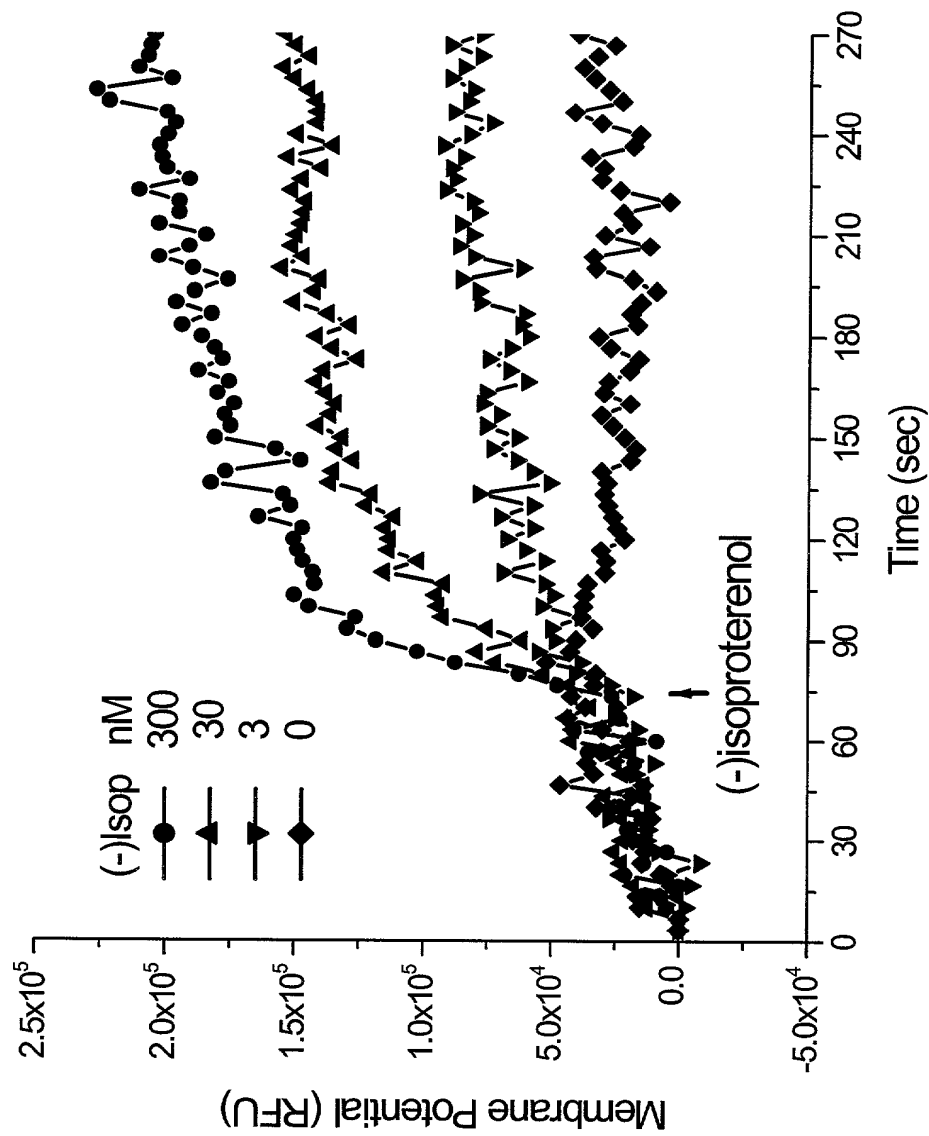
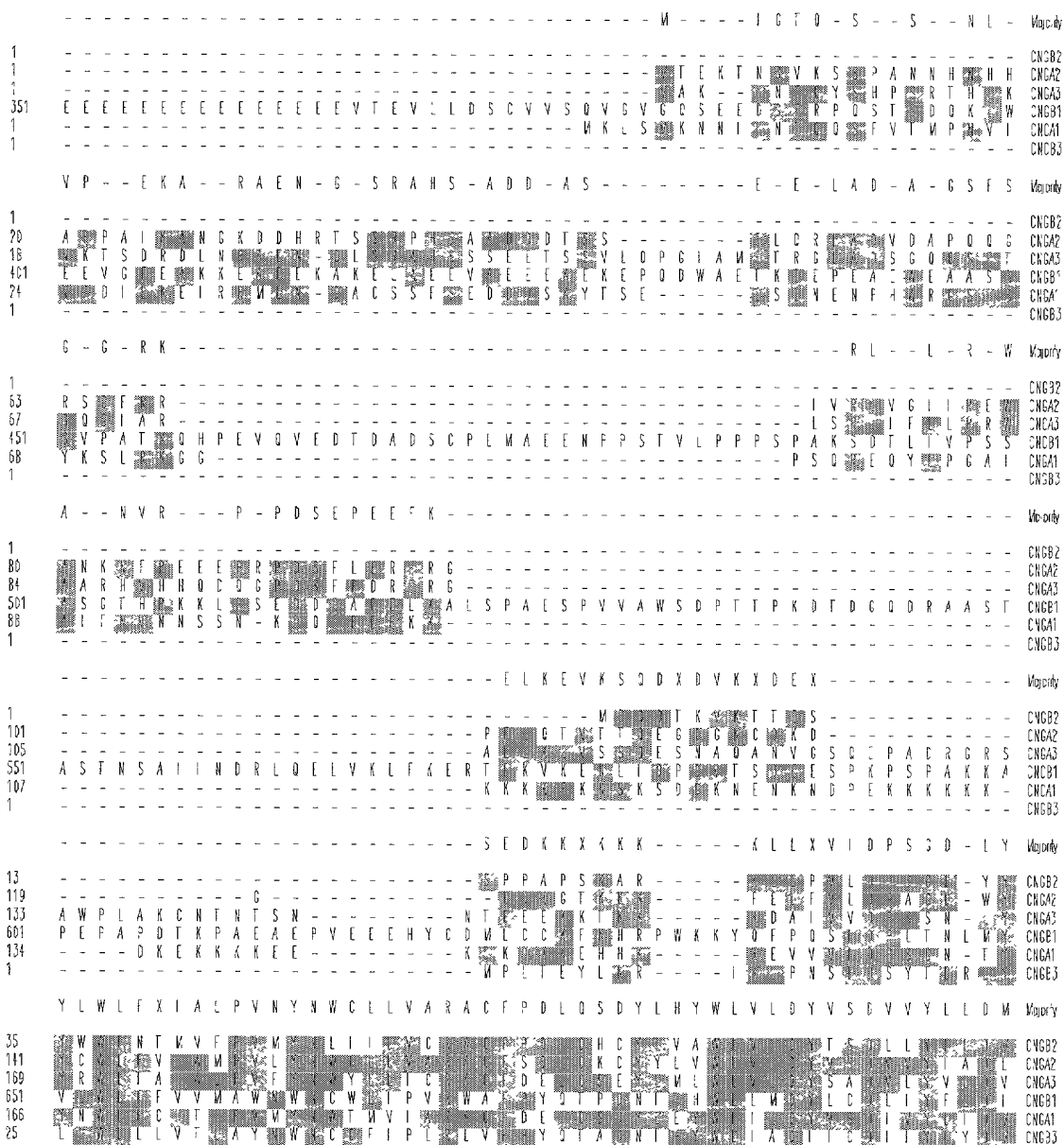


FIG. 6

FIG. 7

D O C U M E N T



THE END



FIG. 8C

A - - - - - A G - A T P K D L E E K L G S L G K S - - - - - L D F L Q T R F A R L Majority

483 E A - - - - - E I L Q E A T S R R R D Q Q - - - - - W E D E E K K K CNGB2
589 V - - - - - T S M E V V O S R R Q E T N - - - - - W E D E E K K K CNGA2
617 R - - - - - D S M E V V O S R R Q E T N - - - - - W E D E E K K K CNGA3
1089 S - - - - - V L I L P P R A G L I N A A A M I H G G K G A K G G K A H R K A L K E CNGB1
614 N - - - - - S D L I E E V T R M E G S - - - - - V L I L P P R A G L I N A A A M I CNGA1
458 P P R K D L A L L F P P K E E L I K E L T D M A S - - - L A R L L K K R L A A D K K E CNGB3

L A E V E A A Q G K - - L K Q R L S X L E K Q X K E G - - - X D X E X A D D E G E P D E X A P X D E Majority

515 L S S A L - - I A Y I E R W T R W P M P E L A E S D S G M N S F L A A A CNGB2
619 L S S A L - - I A Y I E R W T R W P M P E L A E S D S G M N S F L A A A CNGA2
618 L S S A L - - I A Y I E R W T R W P M P E L A E S D S G M N S F L A A A CNGA3
1134 A L L E A S V K Q U E L V E A K S Q D V K C L P L S A A P Q H P K A A T L P P R I P CNGB1
615 A L L E A S V K Q U E L V E A K S Q D V K C L P L S A A P Q H P K A A T L P P R I P CNGA1
506 K S G G E E E G I N E D K K E N E D K K E N E D K K E N D K K K G R E K L R CNGB3

P E - - - - - Majority

563 E G R A S C E G P P G P E CNGB2
664 Q D CNGA2
693 Q D CNGA3
1184 P P G S P P S S P P - P A S L G R P E G E E E C P A E P E H S V R I C W S P G P E P G E Q I L CNGB1
690 T CNGA1
555 P E C T A S P I A V E E E P H S V R R - - - T V L P R G T S R Q S L I S M A P S A E G G E E V L CNGB3

- - - - - Majority

575 S V K M P E C R E E K A E CNGB2
664 S V K M P E C R E E K A E CNGA2
694 S V K M P E C R E E K A E CNGA3
1233 S V K M P E C R E E K A E CNGB1
690 S V K M P E C R E E K A E CNGA1
601 F I E V K E X A K Q CNGB3

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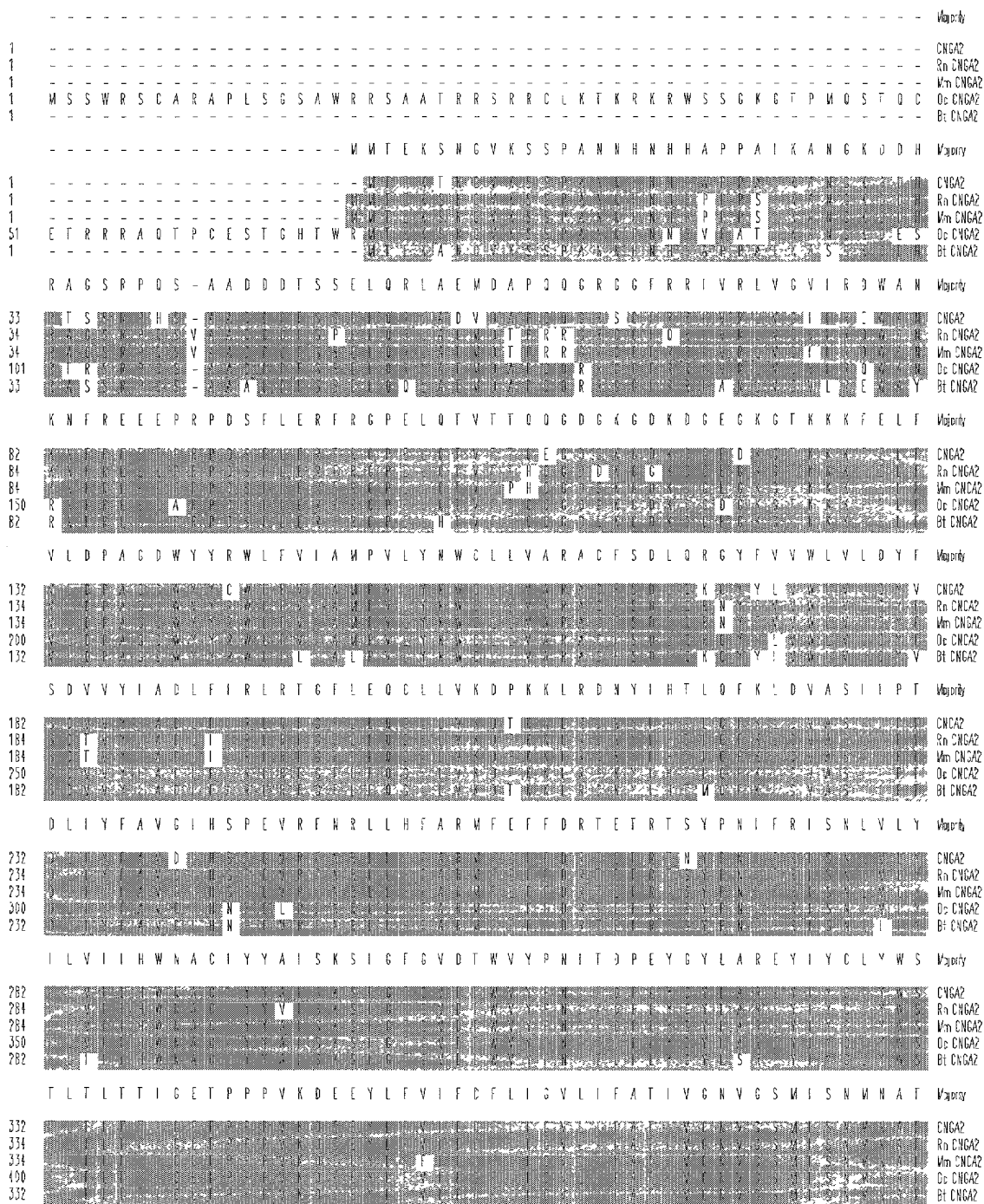
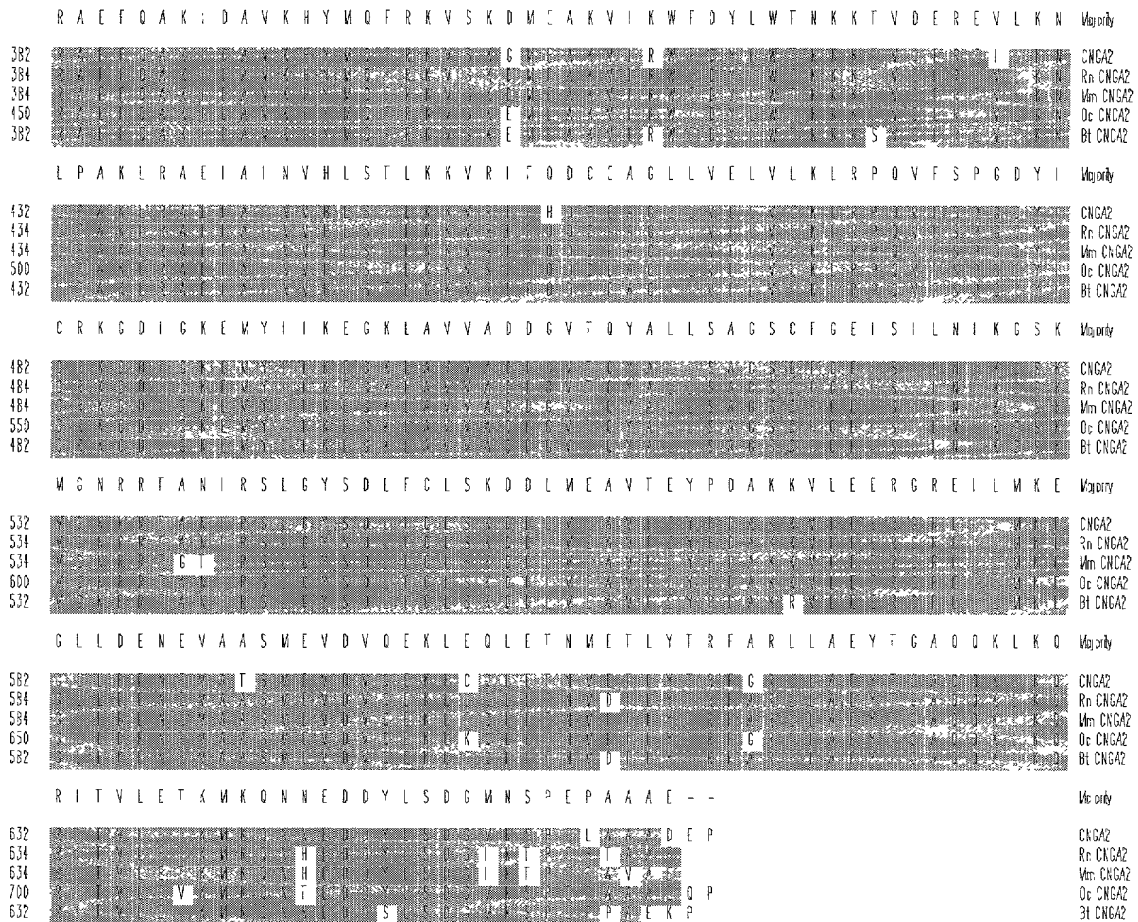


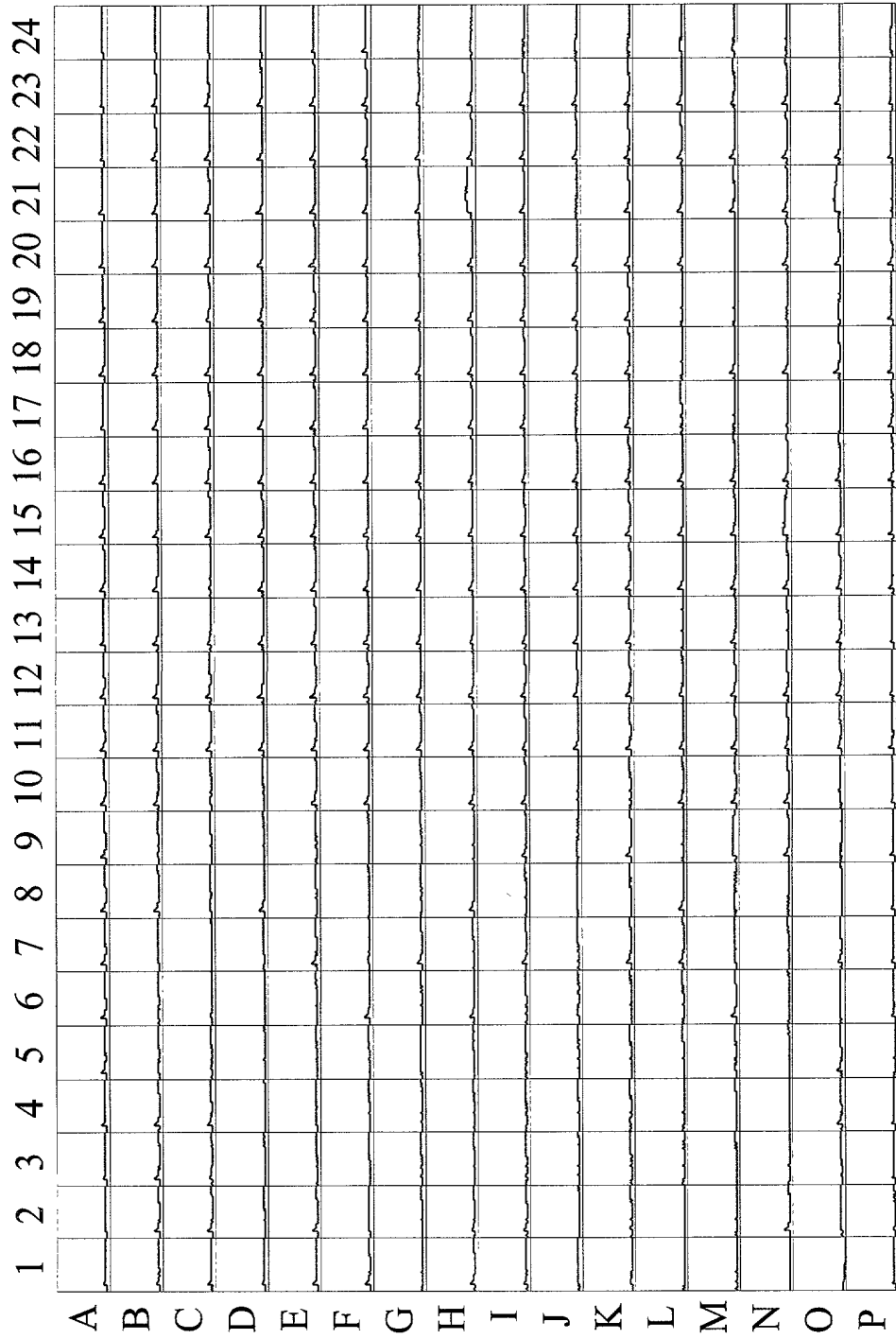
FIG. 9B



41195 41196 41197 41198 41199 41200 41201 41202 41203 41204 41205 41206 41207 41208 41209 41210 41211 41212 41213 41214 41215 41216 41217 41218 41219 41220 41221 41222 41223 41224 41225 41226 41227 41228 41229 41230 41231 41232 41233 41234 41235 41236 41237 41238 41239 41240 41241 41242 41243 41244 41245 41246 41247 41248 41249 41250 41251 41252 41253 41254 41255 41256 41257 41258 41259 41260 41261 41262 41263 41264 41265 41266 41267 41268 41269 41270 41271 41272 41273 41274 41275 41276 41277 41278 41279 41280 41281 41282 41283 41284 41285 41286 41287 41288 41289 41290 41291 41292 41293 41294 41295 41296 41297 41298 41299 41300



Fig. 10B



HEK293H parental cells, RFU: -3000 to 24000
1 μ M Isoproterenol Buffer

Fig. 10C

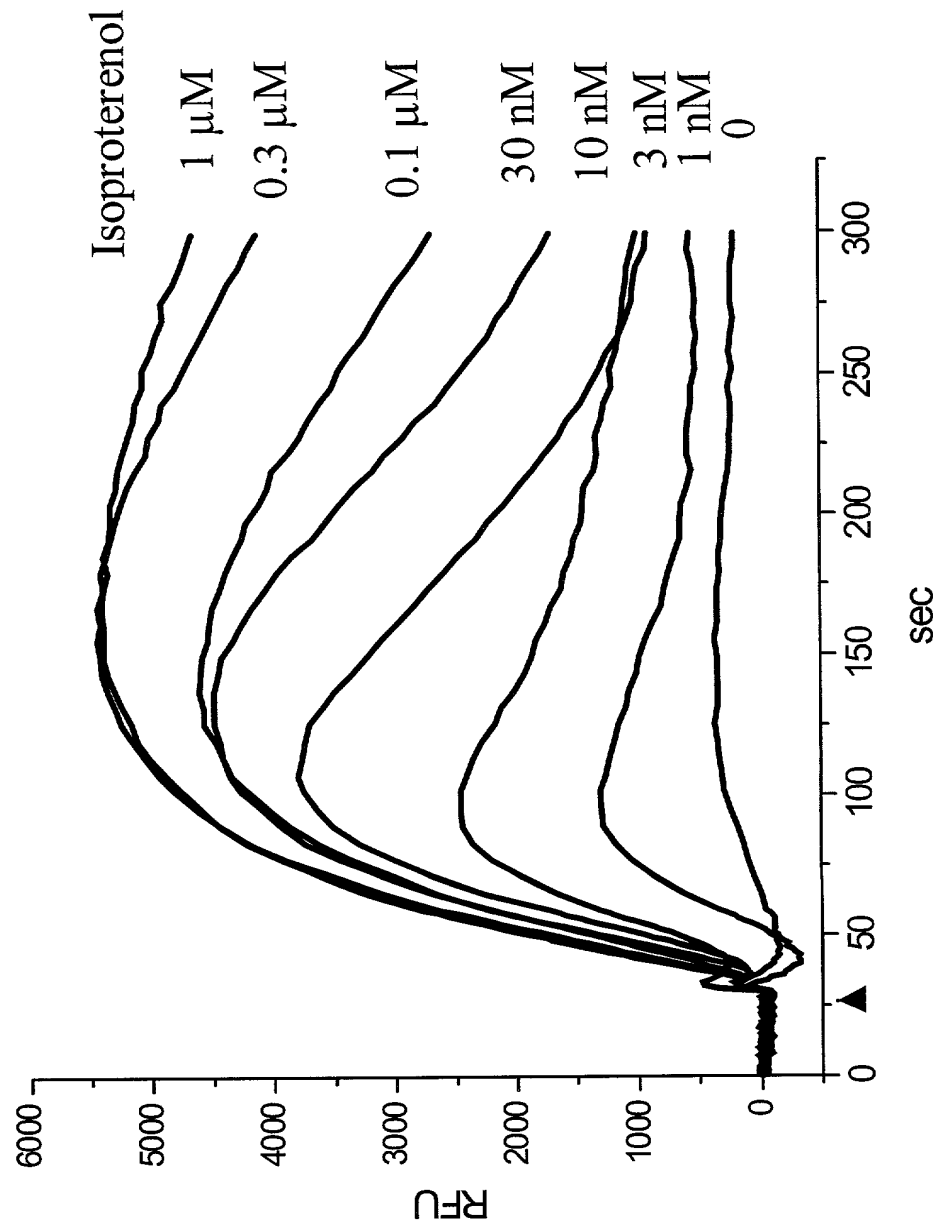


Fig. 10D

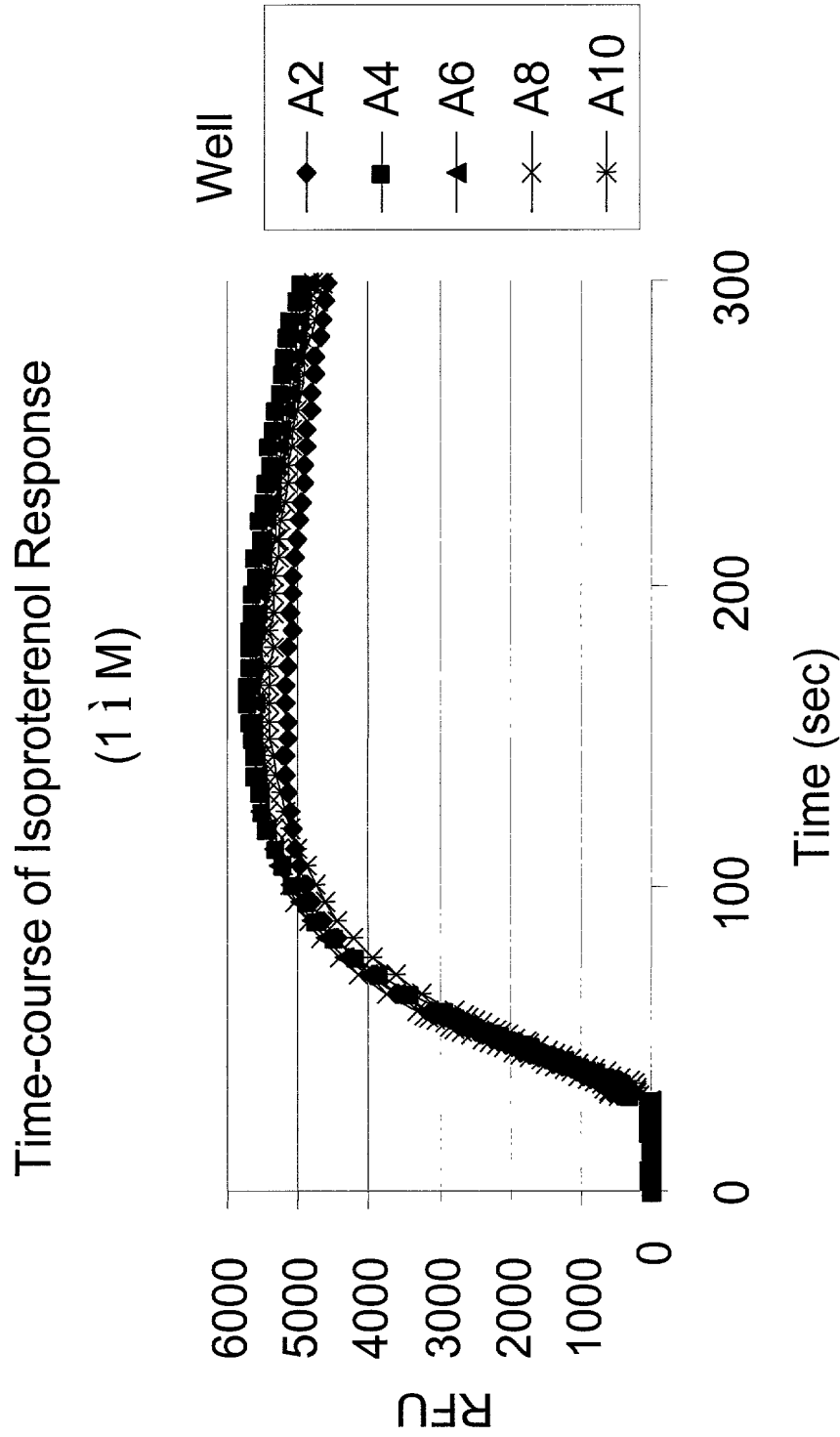


Fig. 11. A kinetic assay with calcium-sensitive dye

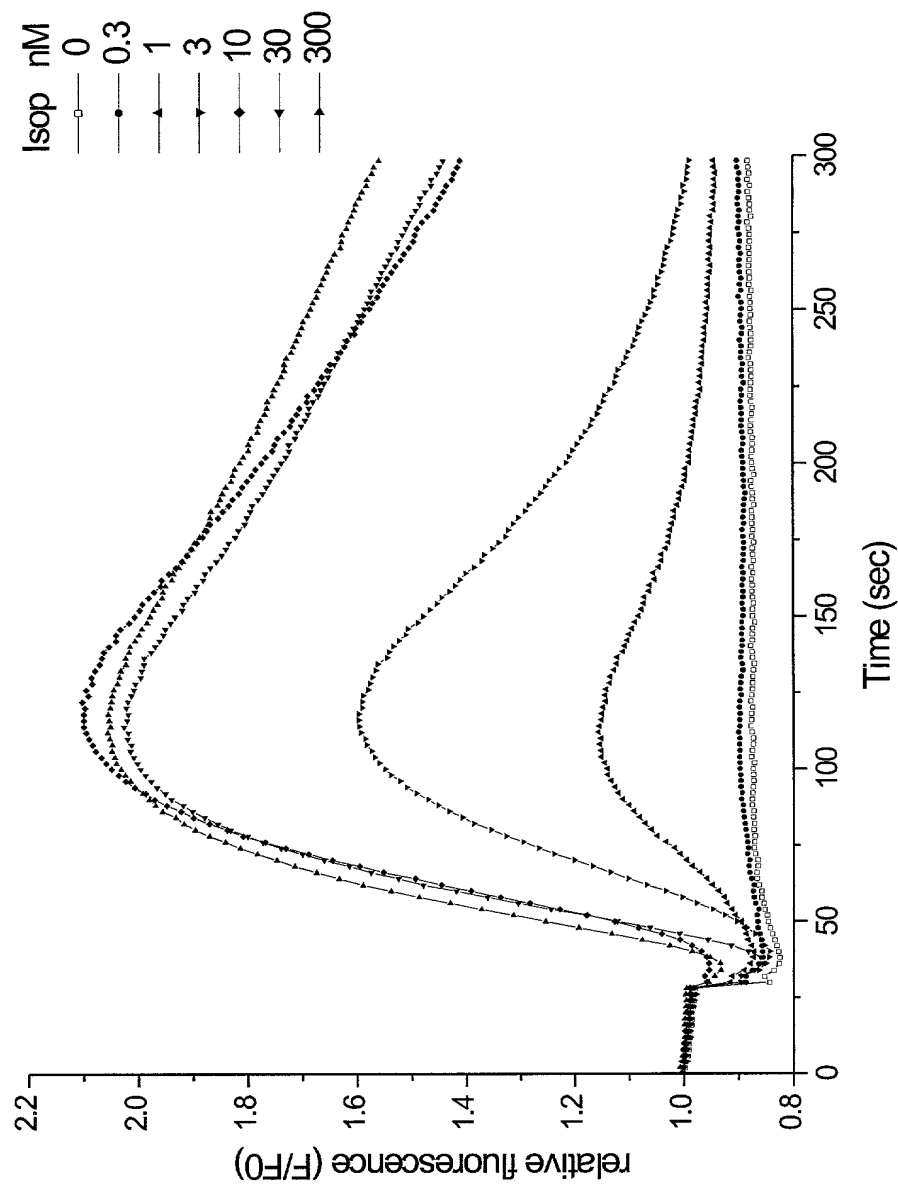


Fig. 12

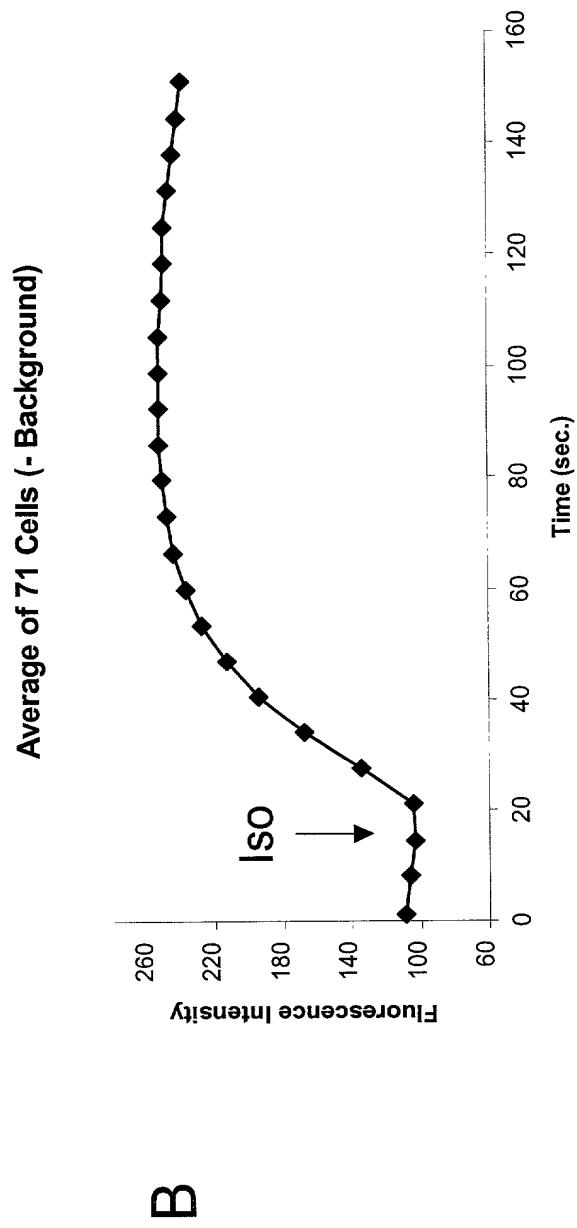
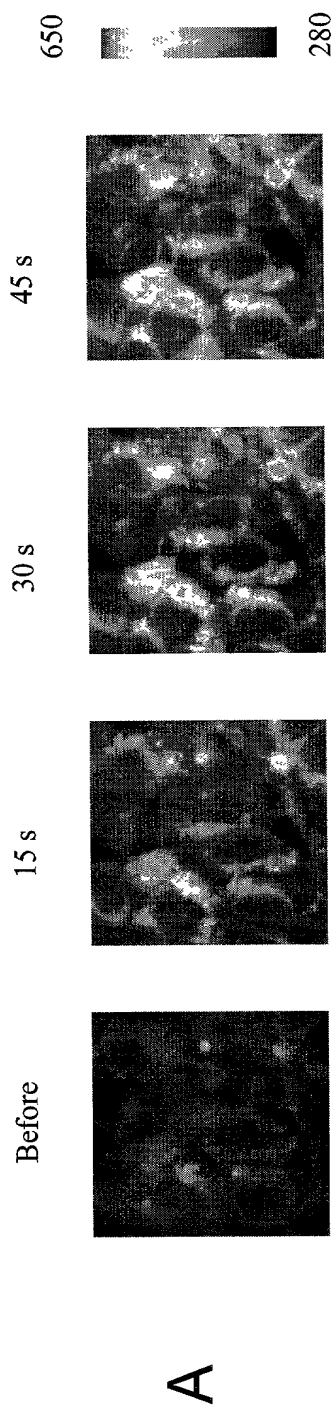


Fig. 13

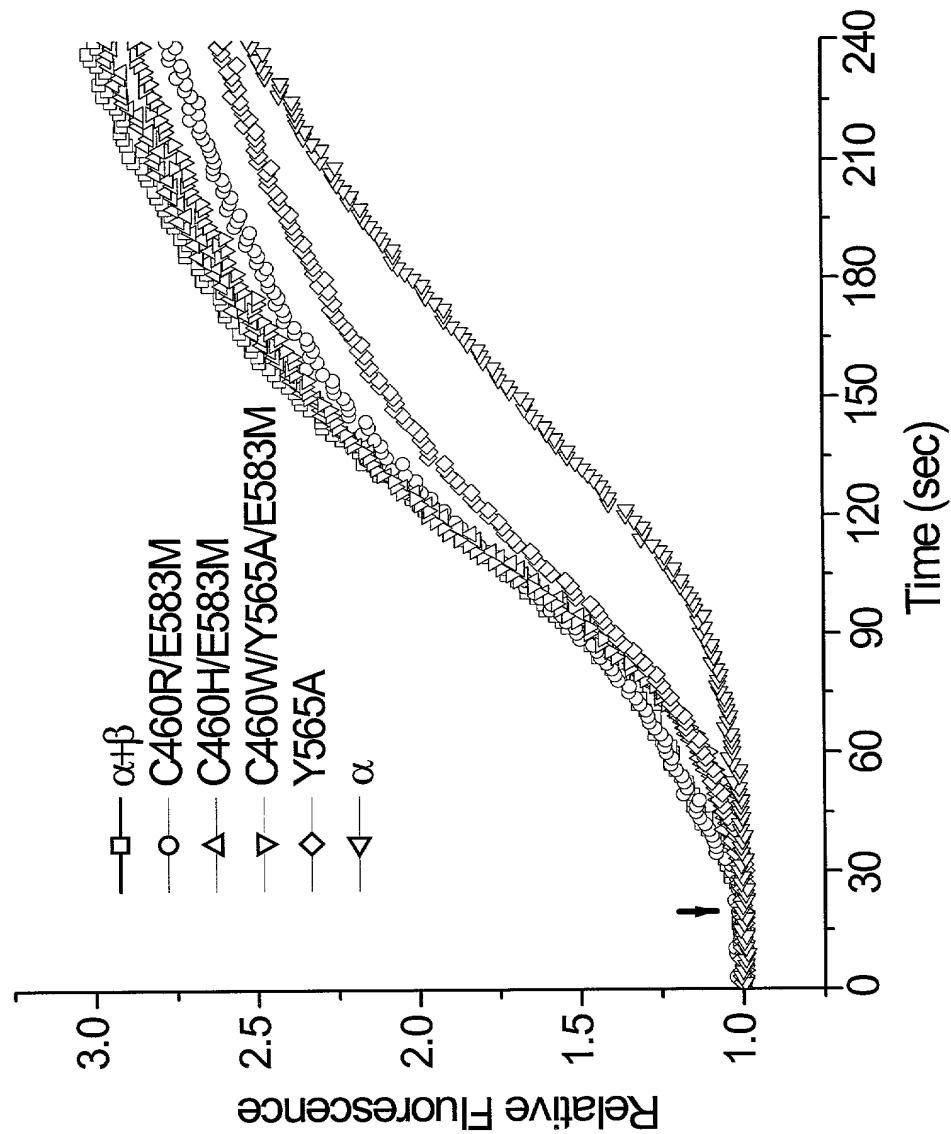


Fig. 14

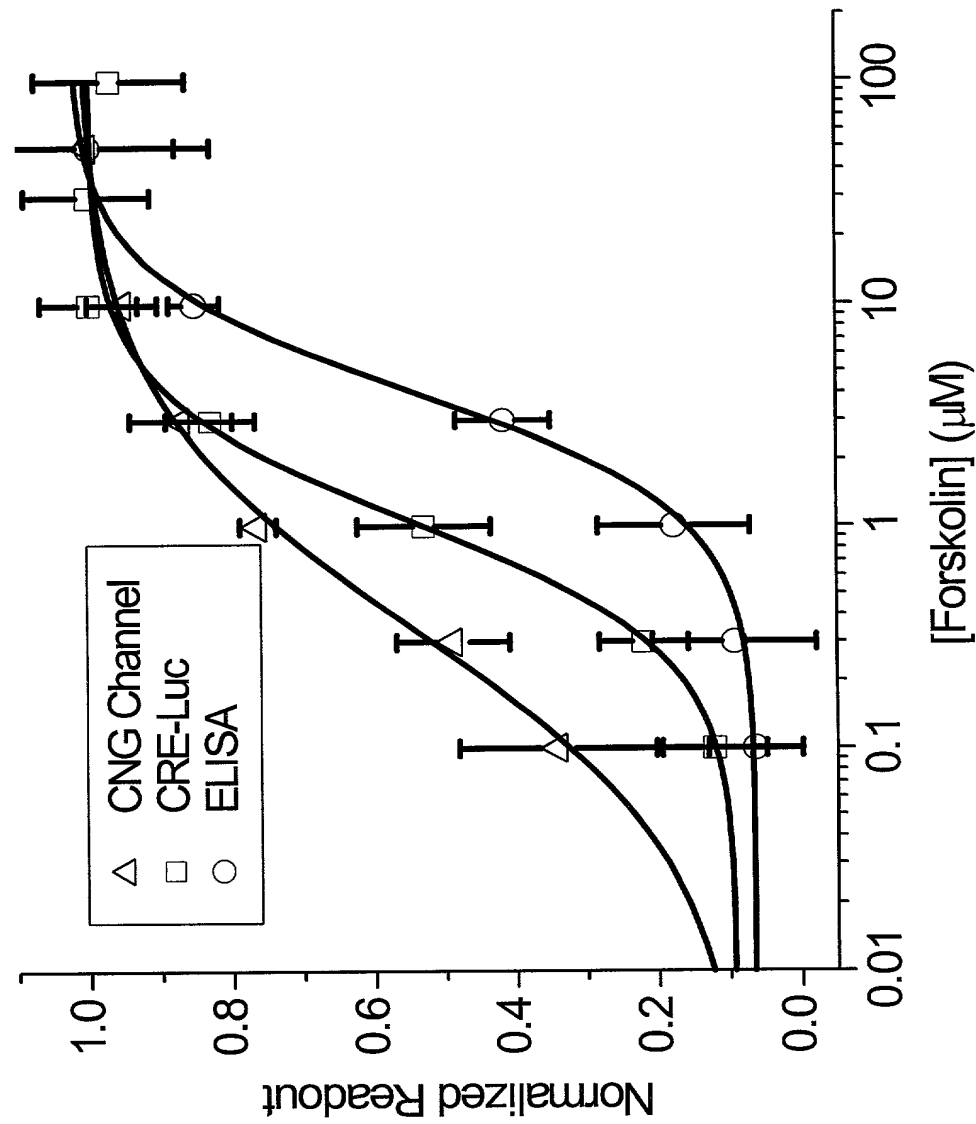
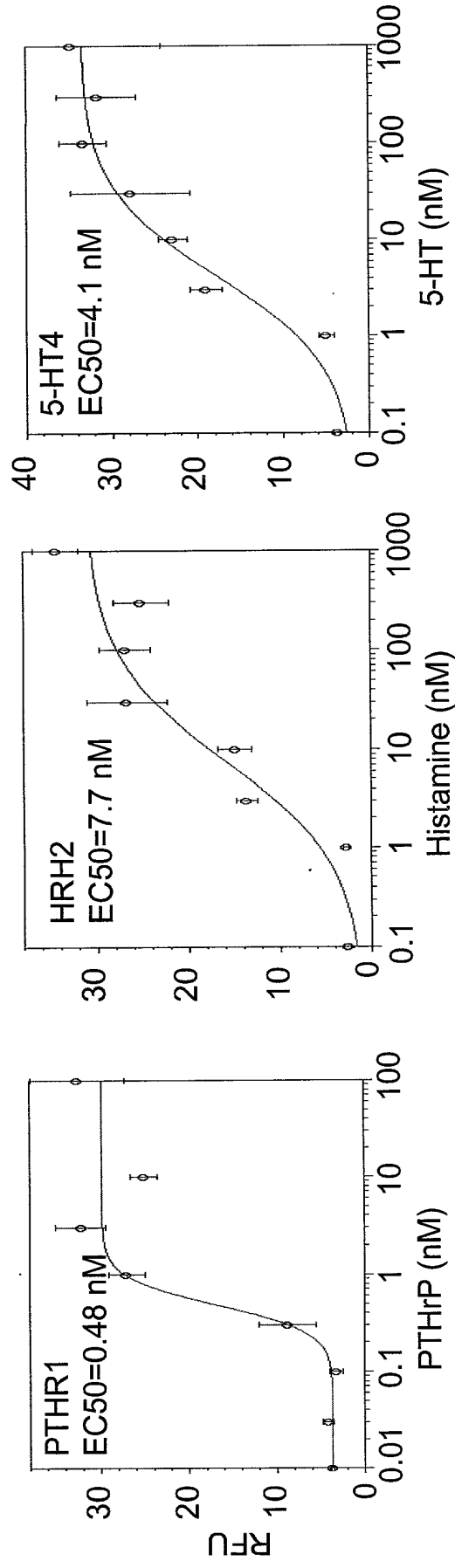


Fig. 15



Dose response curves obtained with CNG-assay

Fig. 16

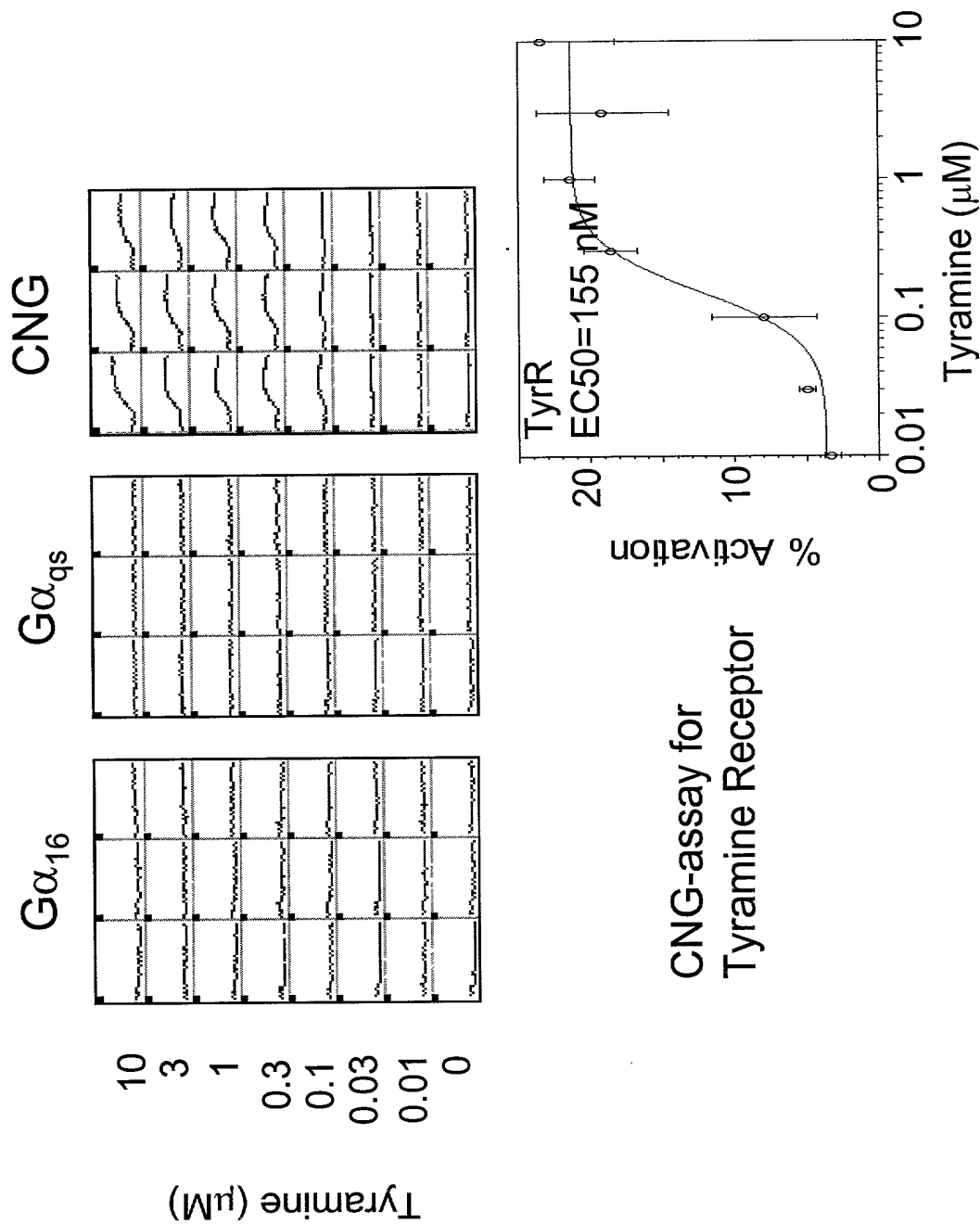
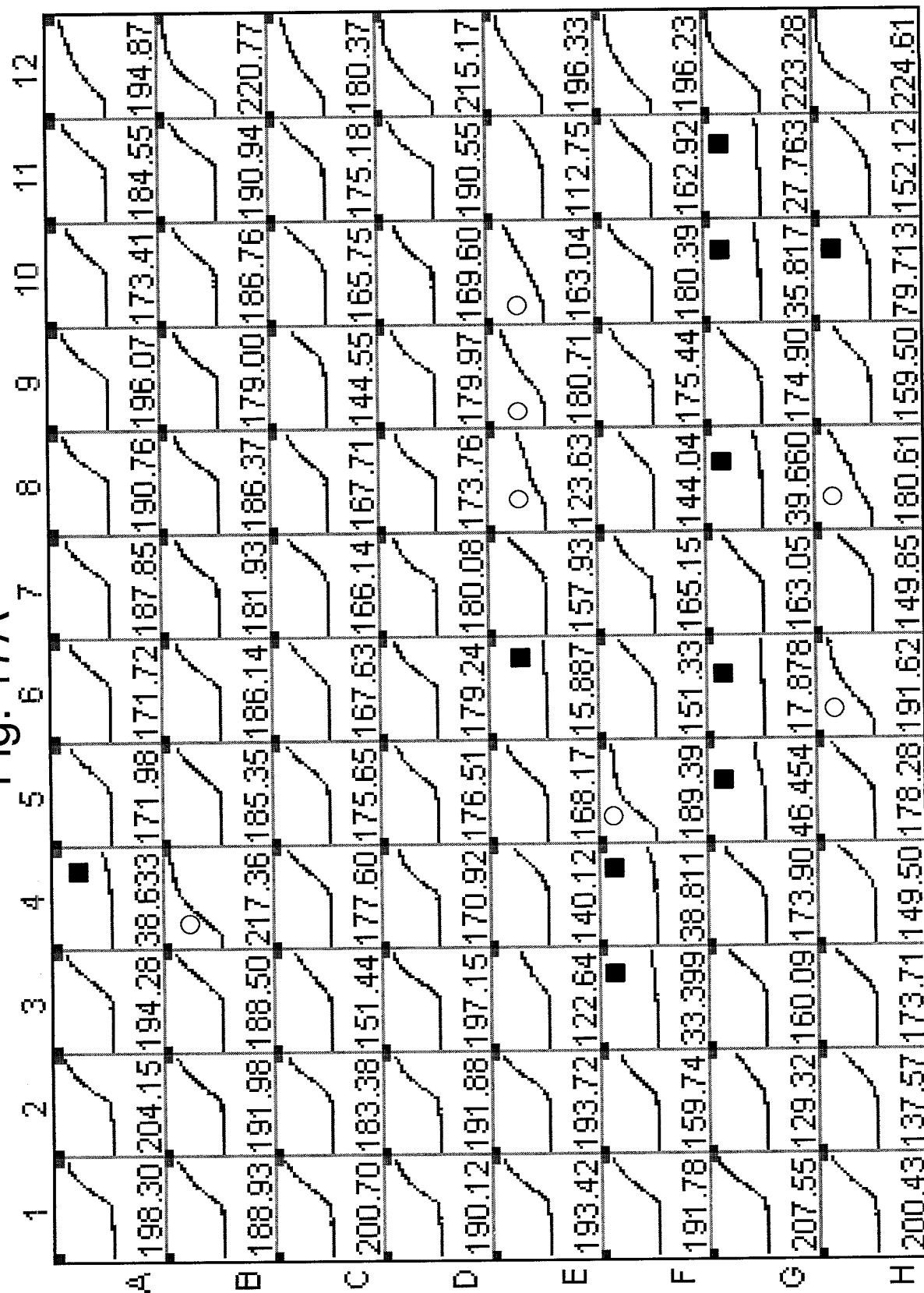


Fig. 17A



β 2-Adrenoceptor Agonists and Antagonists Detection

Fig. 17B

Adrenergic compound—plate from BIOMOL

	1	2	3	4	5	6	7	8	9	10	11	12
A	2-TERCUTYL- METHOXYPHENYL AMINOMETHYL-1- TETRALONE Alpha 1 adrenergic agonist	GONABENZ ACRYLATE Alpha 2 adrenergic agonist	NICEROLINE Alpha adrenergic antagonist	COF 11177 HCl Beta 2 adrenergic agonist, beta 1 & 2 adrenergic antagonist	8-(+)- PROPANOLOL Dopamine/ antagonist (beta active)	RAMOLISINE HCl Alpha 2 adrenergic antagonist	NOXAPINE Nonopressin uptake inhibitor	BLANK	BLANK	BLANK		
B	5- METHYLURACIDIL Alpha 1 adrenergic antagonist	COF 20713A METHANSULFONATE Beta 1 adrenergic antagonist	CHLOROTHALIDONINE 2HCl Alpha 1B adrenergic blocking agent	(-)-ISOPROTERENOL HCl Beta adrenergic agonist	PHENOXINE MESYLATE Alpha adrenergic antagonist	A 11603 HCl Alpha 1A adrenergic agonist	CHLORAZINE HCl Alpha 1 adrenergic agonist	N-4114 Alpha 1 adrenergic agonist	SYNTHETICADINE HCl Alpha 2A adrenergic partial agonist, alpha 1A antagonist	BM 7778 2HCl Alpha 1D adrenergic antagonist	CORYNAPINE HCl Alpha 1 adrenergic antagonist	
C	1- TERFENOL Alpha 1 adrenergic antagonist	2-114-12- METHOXYPHENYL PIPERAZIN-1- YL ETHYL-1,5- 6-METHYL-2,3- DIHYDROIMIDAZO QUINAZOLIN- 5 (4H)-ONE (1,2C) Alpha 1 adrenergic antagonist	NAFOTIDIL 2HCl Alpha 1 adrenergic antagonist	2-114-12- METHOXYPHENYL PIPERAZIN-1- YL ETHYL-1,5- 6-METHYL-2,3- DIHYDROIMIDAZO QUINAZOLIN-5 (4H)- ONE Alpha 1 adrenergic antagonist	PHENOXINE MESYLATE Alpha 1 adrenergic antagonist	RS 17053 HCl Alpha 1A adrenergic agonist	WM 4101 HCl Alpha 1A adrenergic agonist	3-12-14-12- METHOXYPHENYL PIPERAZIN-1- YL ETHYL-1,5- 6-METHYL-2,3- DIHYDROIMIDAZO QUINAZOLIN-5 (4H)- ONE Alpha 1 adrenergic agonist	3-12-14-12- METHOXYPHENYL PIPERAZIN-1- YL ETHYL-1,5- 6-METHYL-2,3- DIHYDROIMIDAZO QUINAZOLIN-5 (4H)- ONE Alpha 1 adrenergic agonist	Alpha 1D adrenergic antagonist	CLONIDINE HCl Alpha 2 adrenergic agonist	
D	1- TERFENOL Alpha 1 adrenergic antagonist	UK 14,304 Alpha 1 adrenergic antagonist	ARC 239 2HCl Alpha 1 adrenergic antagonist	BNL 4408 VALENTE Alpha 1 adrenergic antagonist	IMIDOXAN HCl Alpha 1 adrenergic antagonist	RS 79318 HCl Alpha 1A adrenergic agonist	SPINOXADINE Alpha 1A adrenergic agonist	TOXIMINE HCl Alpha 2 adrenergic antagonist	ASORINE SULFATE Alpha 2 adrenergic agonist	DIHYDROECHISTINE MESYLATE Alpha 2 adrenergic partial agonist	DIHYDROECHISTINE MESYLATE Alpha 2 adrenergic partial agonist	
E	(-)- TERFENOL Alpha 2 adrenergic antagonist	R-(-)- TERFENOL Alpha 2 adrenergic agonist	B-(-)- TERFENOL Alpha 2B adrenergic antagonist	TERFENOL HCl Alpha 2A adrenergic antagonist	TERFENOL Alpha 2 adrenergic antagonist	(S)- TERFENOL VALENTE Alpha 2 adrenergic antagonist	XANTHOL HEMIFUMARATE Alpha 2 adrenergic agonist	CLONIDINE Alpha 2 adrenergic antagonist	PROCATEROL HCl Endogenous Alpha 2 receptor agonist	SALURANOL SULFATE Alpha 2 adrenergic partial agonist	RL 37411 SODIUM SALT Alpha 2 adrenergic agonist	
F	101 215,001 HCl Beta adrenergic antagonist	20 7114 HCl Inactive isomer Beta adrenergic antagonist	FINOLOL Beta adrenergic antagonist	(S)-(-)- FINOLOL Beta 1 adrenergic antagonist	CLONIDINE Beta adrenergic antagonist	N- DESISOPROPYLPROPANOLOL HCl Beta 1 adrenergic antagonist	DOPAMINE HCl Beta 1 adrenergic agonist	ICI 35106 Beta 2 adrenergic agonist	1- NAPHTHOXYACETIC Beta 2 adrenergic agonist	Beta 2 adrenergic agonist	PRONETHALOL HCl Beta 2 adrenergic agonist	
G	PROPRANOLOL GLUCOL Active metabolite of 2D 7114 Beta adrenergic antagonist	Beta 1 adrenergic agonist	Beta 3 adrenergic partial agonist	Beta 3 adrenergic partial agonist	Beta adrenergic agonist	Methabolite of propranolol HCl Beta adrenergic antagonist	Beta 1 adrenergic agonist	Beta adrenergic antagonist	Methabolite of propranolol HCl Beta adrenergic antagonist	Methabolite of propranolol HCl Beta adrenergic antagonist	Beta adrenergic antagonist	
H	TERFENOL HCl Metabolite of propranolol Beta adrenergic antagonist	SAFOLOL HCl Beta 1 adrenergic agonist	MAFOTIDINE HCl Beta 3 adrenergic partial agonist	NICOTETINE HCl Beta 3 adrenergic agonist	MAFOTIDINE MAFOTIDINE Beta 1 adrenergic antagonist	(-)- TERFENOL HCl Beta adrenergic antagonist	MAFOTIDINE HCl Beta 1 adrenergic agonist	ICI 35106 Beta 2 adrenergic agonist	PHENOXINE HCl Alpha adrenergic antagonist	PROPRANOLOL HCl Beta adrenergic antagonist	3-(-)- PROPRANOLOL HCl Beta adrenergic antagonist	
	TERFENOL HCl Metabolite of propranolol Beta adrenergic antagonist	AM 1110A Beta adrenergic antagonist	TERFENOL Nonopressin uptake inhibitor	TERFENOL Nonopressin uptake inhibitor	SPITEKONE Beta 1 adrenergic antagonist	ICI 35106 Beta 2 adrenergic agonist	MAFOTIDINE HCl Beta 1 adrenergic agonist	ICI 35106 Beta 2 adrenergic agonist	PHENOXINE HCl Alpha adrenergic antagonist	ALPHELOL HCl Beta adrenergic antagonist	IMIPAXINE HCl Beta adrenergic antagonist	
	Alpha 2 adrenergic agonist	Alpha 1B adrenergic agonist	Alpha 1B adrenergic antagonist	Alpha 2 adrenergic antagonist	Alpha 1 beta adrenergic antagonist	Endogenous alpha, beta adrenergic agonist	Alpha 2 adrenergic agonist	Endogenous alpha, beta adrenergic agonist	Beta adrenergic agonist	Beta adrenergic antagonist	Nonopressin uptake inhibitor	

NOTE
1 100 ISOPROTERENOL
2 All compound concentration 10 5 uM